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SOURCE Radio, No 1, 1951, pp 31-37.

THE TALLIN B-2 BATTERY RECEIVER

A. Komarov

The "Punane-Ret" Plant in Tallin has begun the manufacture of the Tallin B-2 battery receiver intended for use in nonelectrified rural areas.

The receiver is designed for loudspeaker reception of radio broadcasts and has both long (150-410 kc, or 2,000-733 m) and medium (520-1,600 kc, or 575-187 m) wave bands.

In the European USSR, the Tallin B-2 provides positive reception of high-powered stations in the central broadcast system. Under favorable conditions and with a good outdoor antenna, the more remote stations can also be received. Local stations and powerful distant stations can be received with an indoor antenna.

The receiver is a four-tube superheterodyne using miniature tubes (1A1P, 1K1P, 1B1P, 2P1P). The intermediate frequency used is 465 kc. Receiver sensitivity on both bands is at least 400 μ v, and the selectivity is at least 20 db with detuning of ± 10 kc.

The rated power output of the receiver with a harmonic factor not exceeding 10 percent is 100 mw. With this output power, the loudspeaker develops an average sound pressure of approximately 4.5 bars at a distance of 1 m.

The receiver can be switched to (power) economy operation, in which the power drawn from the plate battery is only two-thirds of that taken in normal operation. The output during economy operation is only 25 mw, but because of the high sensitivity of the loudspeaker the average sound pressure developed at a distance of 1 m is approximately 2.5 bars. The volume corresponding to this sound pressure is entirely adequate for good audibility in a room of average size. The frequency response of the receiver is 150-3,000 cps with a variation not exceeding 15 db.

Power supply data is as follows: filament battery, 1.2 or 2 v, 300 ma; plate battery, 90 v, 10 ma for normal operation, and 6-7 ma for economy operation.

In addition to the reception of radio broadcast stations, the Tallin B-2 has a jack for phonograph operation.

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